0058705

## Isom, Debra A (Debbi)

**From:** Tortoso, Arlene C
**Sent:** Monday, February 03, 2003 1:04 PM
**To:** Isom, Debra A (Debbi)
**Subject:** FW: Chromium versus time plots for 199-D8-70 and 199-K-117A

Debbi:
Please add this email message to the Administrative Record for 100-HR-3 and 100-KR-4 Operable Units. If you have any questions, please let me know.
Thanks,

Arlene Tortoso
DOE-RL-WMD
(509) 373-9631



-----Original Message-----
**From:** Tortoso, Arlene C
**Sent:** Monday, February 03, 2003 1:01 PM
**To:** Price, John (ECY); Gadbois, Laurence E
**Cc:** Soper, Wayne W; Borghese, Jane V; Raidl, Bob F
**Subject:** Chromium versus time plots for 199-D8-70 and 199-K-117A

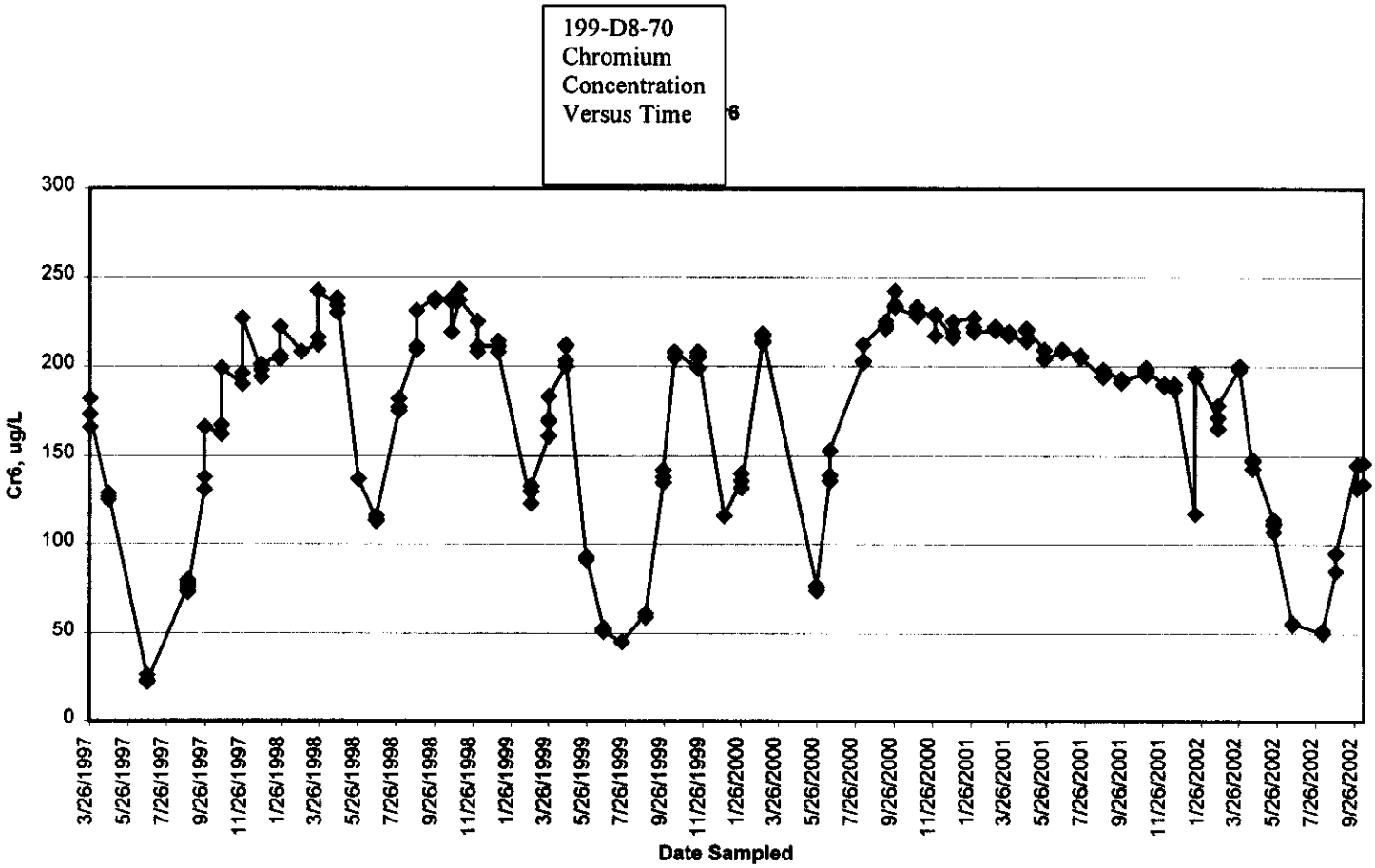
John/Larry

Here are the data files for wells 199-D8-70 and 199-K-117A. These are the two wells that have been sampled since 1997 with a kabis sampler in accordance with the DOE/RL-96-=90 Rev 0, the *Interim Action Monitoring Plan for 199-HR-3 and 100-KR-4 Operable Units.* The wells have been sampled at 2 or 3 depths monthly depending on the depth to groundwater at the time of collection. The plots clearly show that there really hasn't been any stratification of chromium in these wells that we can detect using this sampling method.

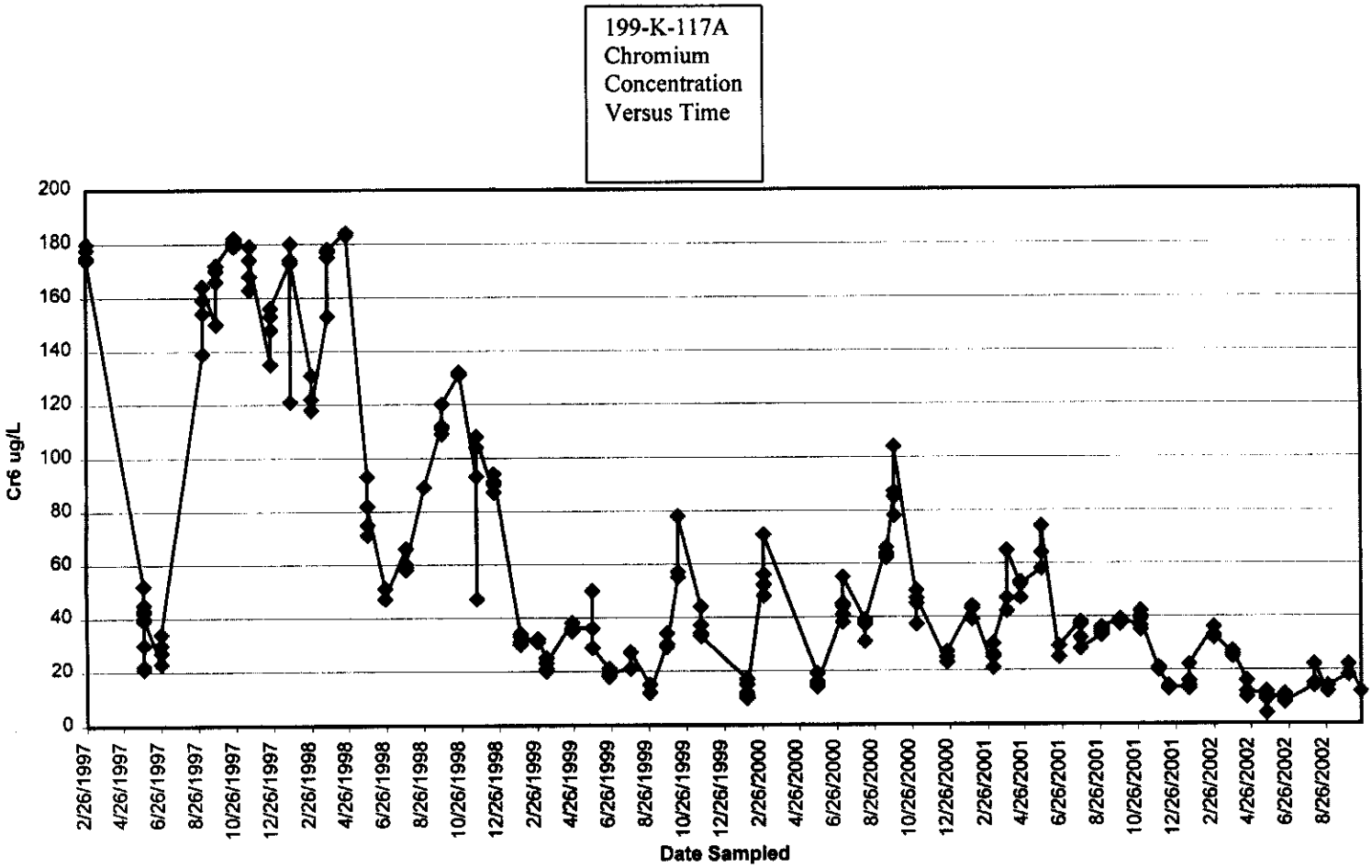
As was discussed in the November 100-Area UMM, we are proposing to install a sampling pump in each well and collecting one, monthly sampling, the same as the other compliance wells. This would save sampling time, time spent in analyses and associated waste.

Please provide your concurrence on this change in sampling method for these wells.
Thanks,

Arlene Tortoso
DOE-RL-WMD
(509) 373-9631




Compliance well 199-D8-70 has been sampled with a Kabis sampler since March 26, 1997. This trend plot displays sampling result through September, 2002. Two to three depth intervals were sampled each sampling round, depending on the depth to groundwater. As seen above, there has been minimal range in Cr6 concentration in each sampling round shown by the clustering of sampling results for each sampling interval. Based on these results, little to no chromium stratification is present in the aquifer.




Compliance monitoring well 199-K-117A was sampled at two to four depth intervals as shown above. There is generally minimal variability in Cr6 concentration, particularly as concentrations have decreased over the last year. As seen above, there has been minimal range in Cr6 concentration in each sampling round shown by the clustering of sampling results for each sampling interval. Based on these results, little to no chromium stratification is present in the aquifer.